DEPARTMENT OF CHEMISTRY
PSOs-COs Attainment
ODD Semester - 2022-2023

PSO No.	Programme Specific Outcome
PSOs	Upon completion of B.Sc. (Spl.) Chemistry programme, the student will be able to
PSO-1	understand and explain the theoretical concepts in Chemistry
PSO-2	plan experiments strategically and collect relevant data
PSO-3	analyse and interpret the scientific data
PSO-4	compile and communicate the results of a scientific study effectively
PSO-5	design solutions to scientific problems in the society

Course Code : CHE1301FP **Batch : 2022**

Course Title : VOLUMETRIC ANALYSIS

Faculty Name(s) : Dr. JAYANTHI KALAIVANI G., Dr. JULIE RANEE S., Dr. SILVIYA REETA P. & Dr. SUJA S.K.

COs Consistency with PSOs

Course Outcome	CO	Programme Specific Outcome				
		1	2	3	4	5
CO-1: apply the knowledge on lab safety and precautionary measures while handling chemicals	CO-1	2	2	1	1	1
CO-2: demonstrate the accuracy of volumetric glassware	CO-2	2	2	2	1	1
CO-3: make use of different concentration units to prepare standard solutions	CO-3	2	3	2	2	2
CO-4: apply the titrimetric principles to estimate chemical substances	CO-4	2	3	2	2	3

3» Strongly correlated; 2» Moderately correlated; 1» Weakly correlated

CO Attainment

Formative Assessment				Summative Examination			Total
CO	%>=10 Marks	Attainment Level	Attainment of CO(0.6*)	%>=6 Marks	Attainment Level	Attainment of CO(0.4*)	
CO1	83	3	1.8	100	3	1.2	3
CO2	91	3	1.8	100	3	1.2	3
CO3	64	2	1.2	65	2	0.8	2
CO4	70	3	1.8	98	3	1.2	3

PSO Attainment

Course Code	PSO Attainment	PSO1	PSO2	PSO3	PSO4	PSO5	Analysis Report
CHE1301FP	Actual	2.75	2.7	2.71	2.67	2.71	CO attainment is 100% for all COs except CO3. More focus on concentration units calculation and preparation of solution to be given. PSO attainment is more than expected.
	Expected	2	2.5	1.75	1.5	1.75	

sd./ Dr. SRIDEVI V.

Signature of Head of the Department/ Co-ordinator

sd./ Dr. JAYANTHI KALAIVANI G., Dr. JULIE RANEE S., Dr. SILVIYA REETA P. & Dr. SUJA S.K.

Signature of the Course Teacher

Course Code : CHE1402CM **Batch : 2022**

Course Title : GENERAL CHEMISTRY

Faculty Name(s) : Dr. SILVIYA REETA P. & Dr. SRIDEVI V.

COs Consistency with PSOs

Course Outcome	CO	Programme Specific Outcome				
		1	2	3	4	5
CO-1: Relate the structure to the behavior ot atom	CO-1	3	1	1	1	1
CO-2: Interpret the gradation in the properties of elements in the periodic table	CO-2	3	1	1	1	1
CO-3: Distinguish between chemical interactions through bonding	CO-3	3	1	1	1	1
CO-4: Explain the theories of chemical bonding	CO-4	3	1	1	1	1
CO-5: Identify the nuclear transmutations and its applications	CO-5	3	1	1	1	1

3» Strongly correlated; 2» Moderately correlated; 1» Weakly correlated

CO Attainment

	Formative Assessment			Summative Examination			Total
CO	%>=8 Marks	Attainment Level	Attainment of CO(0.6*)	%>=4.8 Marks	Attainment Level	Attainment of CO(0.4*)	
CO1	90	3	1.8	33	0	0	1.8
CO2	48	0	0	37	0	0	0
CO3	96	3	1.8	57	1	0.4	2.2
CO4	61	2	1.2	65	2	0.8	2
CO5	80	3	1.8	51	1	0.4	2.2

PSO Attainment

Course Code	PSO Attainment	PSO1	PSO2	PSO3	PSO4	PSO5	Analysis Report
CHE1402CM	Actual	1.64	1.64	1.64	1.64	1.64	CO1- NA in summative, CO2- NA in formative & summative, CO3 and CO5- LA in summative, CO4(K2)- A. Methods of assessment can be changed to train the students to perform well in summative, NA- Not attained, LA- Low attainment, A- attained
	Expected	3	1	1	1	1	

sd./ Dr. SRIDEVI V.

Signature of Head of the Department/ Co-ordinator

sd./ Dr. SILVIYA REETA P. & Dr. SRIDEVI V.

Signature of the Course Teacher

DEPARTMENT OF CHEMISTRY
PSOs-COs Attainment
EVEN Semester - 2022-2023

PSO No.	Programme Specific Outcome
PSOs	Upon completion of B.Sc. (Spl.) Chemistry programme, the student will be able to
PSO-1	understand and explain the theoretical concepts in Chemistry
PSO-2	plan experiments strategically and collect relevant data
PSO-3	analyse and interpret the scientific data
PSO-4	compile and communicate the results of a scientific study effectively
PSO-5	design solutions to scientific problems in the society

Course Code : CHE2203CP **Batch : 2022**

Course Title : SEPARATION AND PURIFICATION TECHNIQUES

Faculty Name(s) : Dr. ANUSHA RANI M., Dr. RAJAM K. & Dr. SUJA S.K.

COs Consistency with PSOs

Course Outcome	CO	Programme Specific Outcome				
		1	2	3	4	5
CO-1: find the suitable technique for the purification of organic compounds	CO-1	3	3	3	3	2
CO-2: choose the technique for the extraction of natural products	CO-2	3	3	3	3	2
CO-3: apply the various techniques for the separation of organic compounds	CO-3	3	3	3	3	2

3» Strongly correlated; 2» Moderately correlated; 1» Weakly correlated

CO Attainment

Formative Assessment				Summative Examination			Total
CO	%>=0 Marks	Attainment Level	Attainment of CO(0.6*)	%>=0 Marks	Attainment Level	Attainment of CO(0.4*)	
CO1	100	3	1.8	100	3	1.2	3
CO2	100	3	1.8	100	3	1.2	3
CO3	100	3	1.8	100	3	1.2	3

PSO Attainment

Course Code	PSO Attainment	PSO1	PSO2	PSO3	PSO4	PSO5	Analysis Report
CHE2203CP	Actual	3	3	3	3	3	100% attained in both formative and summative examination
	Expected	3	3	3	3	2	

sd./ Dr. SRIDEVI V.

Signature of Head of the Department/ Co-ordinator

sd./ Dr. ANUSHA RANI M., Dr. RAJAM K. & Dr. SUJA S.K.

Signature of the Course Teacher

Course Code : CHE2503CM **Batch : 2022**

Course Title : BASICS OF ORGANIC CHEMISTRY

Faculty Name(s) : Dr. ANUSHA RANI M. & Dr. SUJA S.K.

COs Consistency with PSOs

Course Outcome	CO	Programme Specific Outcome				
		1	2	3	4	5
CO-1: apply the IUPAC rules to name organic compounds	CO-1	2	1	1	2	1
CO-2: explain the mechanisms involved in organic reactions	CO-2	2	1	1	1	1
CO-3: extend the knowledge of reaction mechanism to reactions of alkanes and alkenes	CO-3	2	2	1	1	1
CO-4: build suitable mechanism for the reactions of alkadienes	CO-4	2	1	1	1	1
CO-5: summarize the reactions of alkynes	CO-5	2	1	1	1	1

3» Strongly correlated; 2» Moderately correlated; 1» Weakly correlated

CO Attainment

Formative Assessment				Summative Examination			Total
CO	%>=8 Marks	Attainment Level	Attainment of CO(0.6*)	%>=4.8 Marks	Attainment Level	Attainment of CO(0.4*)	
CO1	36	0	0	71	3	1.2	1.2
CO2	98	3	1.8	78	3	1.2	3
CO3	84	3	1.8	47	0	0	1.8
CO4	58	1	0.6	56	1	0.4	1
CO5	47	0	0	64	2	0.8	0.8

PSO Attainment

Course Code	PSO Attainment	PSO1	PSO2	PSO3	PSO4	PSO5	Analysis Report
CHE2503CM	Actual	1.56	1.6	1.56	1.5	1.56	CO1:Apply level questions cannot be answered by the students in the first year, CO2: attained, CO3, CO5:Assessment methodology can be changed in the formative, CO4: More examples to be given to the students to understand the mechanism of the reactions
	Expected	2	1.2	1	1.2	1	

sd./ Dr. SRIDEVI V.

Signature of Head of the Department/ Co-ordinator

sd./ Dr. ANUSHA RANI M. & Dr. SUJA S.K.

Signature of the Course Teacher